

TCGACCCACGCGTCCGGGAGGATCGGGAGTCGCGGGAGGATGGGCCGCCGCTAGGCTCGCACTCCGGA CGCGCCTCGC

TGGATGAGCAATCACAAGGAATGCAAGGGCCACCTGTTCCTCAGTTCCAACCACAGAAGGCCTTACGA

AAGCACGTGCTGATTGCATCAAAGAAATAGATCTTCTTAAGCAACTCAACCATCCAAATGTAATAAAA TATTATGCAT

CATTCATTGAAGATAATGAACTAAACATAGTTTTTGGAACTAGCAGATGCTGGCGACCTATCCA GAATGATCAAGCATTTTAAGAAGCAAAAGAGGCTAATTCCTGAAAGAACTGTTTGGAAGTATTTTGTT CAGCTTTGCA

GTGCATTGGAACACATGCATTCTCGAAGAGTCATGCATAGAGATATAAAACCAGCTAATGTGTTCATT

GGTCTCTTGGCTGTCTACTATATGAGATGGCTGCATTACAAAGTCCTTTCTATGGTGACAAAATGAAT TTATACTCAC

AGAGGATGCATGCACTGCAAGCAGCTAAACATGCAAGATCATGAAGAGTGTAACCAAAGTAATT

GAAAGTATTT
TGTGCAAAGTCGTACCTSCCCATTTATGTCTGGGTGTTAAGATTAATATTTCAGAGCTAGTGT
TGTGCAAAGTCGTACCTSCCCATTTATGTCTGGGTGTTAAGATTAATATTTCAGAGCTAGTGC
GCTCTGAATCCTTAACCAGTTTTCATATAAGCTTCATTTTGTACCAGTCACCTAAATCACCTCCTTGC
AACCCCCAAA

TGACTTTGGAATAACTGAATTGCATGTTAGGAGAGAAAATGAAACATGATGGTTTTGAATGGCTAAAG GTTTATAGAA

TTTTTAGTAA
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CTAGTTTTAG

TTCTTAGCAGAGTAGTTTTCAAATATGATTCTTATGATAAATGTAGACACAAACTATTTGAGA AACATTTAGAACTCTTAGCTTATACATTCAAAATGTAACTATTAAATGTGAAGATTTGGGGGACAAAAT GTGAGTCAGA

CACTGAAGAGTTTTTTGTTTTTAATATTTTTTGATATTCTCTTTTGCATTGAAATGGTATAAATGA ATCCATTTAA

AAAGTGGTTAAGGATTTGTTTAGCTGGTGTGATAATAATTTTTAAAGTTGCACATTGCCCCAAG GCTTTTTTTTGTGTGTTTTTATTGTTGTTTGTACATTTGAAAAATATTCTTTGAATAACCTTGCAGTAC TATATTTCAA

Fig. 1



TTTCTTTATAAATTTAAGTGCATTTTAACTCATAATTGTACACTATAATATAAGCCTAAGTTTTTATT

ATTGAAGTTCTGATCGGTCCCCTTCAGAAATTTTTTTATATTATTCTTCAAGTTACTTTCTTA TTTATATTGTATGTGCATTTTATCCATTAATGTTTCATACTTTCTGAGAGTATAATACCCTTTTAAAAA GATATTTGGT

ATACCAATACTTTTCCTGGATTGAAAACTTTTTTAAAACTTTTTAAAATTTGGGCCACTCTGTATGCA TATGTTTGGT

CTTGTTAAAGAGGAAGGATGTGTGTTATACTGTACCTGTGAATGTTGATACAGTTACAA
TTTATTTGACAAGGTTGTAATTCTAGAATATGCTTAATAAAATGAAAACTGGCCATGACTACAGCCAG
AACTGTTATG

AGATTAACATTTCTATTGAGAAGCTTTTGAGTAAAGTACTGTATTTGTTCATGAAGATGACTGAGATG GTAACACTTC

GTAACACTTC
GTGTAGCTTAAGGAAATGGGCAGAATTTCGTAAATGCTGTTGTGCAGATGTGTTTTCCCTGAA
GTGTAGCTTAAGGAAATGGGCAGAATTTCGTAAATGCTGTGAAGCCCTGAAGGCCAAGAGGAAGTCACT
TGCTTTCGTATTAGTGGCGACCAGTTTCTCACAGAATTGTGAAGCCCTGAAGGCCAAGAGGAAGTCACT
GTTAAAGGAC

TCTGTGCCATCTTACAACCTTGGATGAATTATCCTGCCAACGTGAAAACCTCATGTTCAAAGAACACT

CGATGTAACTGCTGGTTTTTGTTTTTCATATGTGTTTTTTCTTACACTCATTTGAATGCTTTCAA
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AGTTATGTAT

GGTTTCTGAAGGGTAATTTTATTTTGGAATAGGTAAAGCGAAACCTGTTTTGTCWTGTTTTTCCTGAG GGCTAGATGC

ATTTTTTTTTCTCACACTCTTAATGACTTTTAACATTTATACTGAGCATCCATAGATATATTCC
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GATGAAATGT

TCTCTGGTTGGAACAGATACTCTTTTTTTTTTTTTCTTGCAATCTTTAAGAATACATAGATCTAAAAATTC ATTAGCTTGA

CCCCTCAAAGTAACTTTTAAGTAAAGATTAAAGCTTTTCTTCTCAGTGAATATATCTGCTAGA AGGAAATAGCTGGGAAGAATTTAATGATCAGGGAAATTCATTATTTCTATATGTGGAAACTTTTTGCT TCGAATATTG

TATCTTTTTAAATCTAAATGTTCATATTTTTCCTGAAGAAACCACTGTGTAAAAAATCAAATTTAATT TTGAATGGAA

TAATTTCAAAGAACTATGAAGATGATTTGAAGCTCTAATTTATATAGTCACCTATAAAATGTT
CTTTATATGTGTTCATAAGTAAATTTTATATTGATTAAAGTTAAACTTTTGAATTGAATTTGAGGAGCAG
TAAAATGAAA

GCTATATCTATTNCTAAACCYTATTTAGACATTGGKACCAGTTACCCAGGTGAAAATAKGGAGTAACT TTGTTTTGTA

TGGTAAGGTTTAGGAATGGNGGATGAAGGGTATCTCTATATAAATAAAGTGCTCAACAATGTG CAATGATTGTAAATTTAGTAAGATATTACAGCCATTTCATGAATGCTTTACCATTCAACATAGTATCT ATTACAAAAC

Fig. 1 (continued)

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MDEQSQGMQGPPVPQFQPQKALRPDMGYNTLANFRIEKKIGRGQFSEVYRAACLLDGVPVALKKVQIF
DLMDAKARAD
CIKEIDLLKQLNHPNVIKYYASFIEDNELNIVLELADAGDLSRMIKHFKKQKRLIPERTVWKYFVQLC
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WSLGCLLYEMAALQSPFYGDKMNLYSLCKKIEQCDYPPLPSDHYSEELRQLVNMCINPDPEKRPDVTY
VYDVAKRMHA
CTASS

Fig. 1 (continued)



GTCGACCCACGCGTCCGGTAGAAGTATAATACTTTGTCATTATGAGATGTCGTCTCTCGG TGCCTCCTTTGTGCAAATTAAATTTGATGACTTGCAGTTTTTTTGAAAACTGCGGTGGAGG AAGTTTTGGGAGTGTTTATCGAGCCAAATGGATATCACAGGACAAGGAGGTGGCTGTAAA GAAGCTCCTCAAAATAGAGAAAGAGGCAGAAATACTCAGTGTCCTCAGTCACAGAAACAT CATCCAGTTTTATGGAGTAATTCTTGAACCTCCCAACTATGGCATTGTCACAGAATATGC TTCTCTGGGATCACTCTATGATTACATTAACAGTAACAGAAGTGAGGAGATGGATATGGA TCACATTATGACCTGGGCCACTGATGTAGCCAAAGGAATGCATTATTTACATATGGAGGC TCCTGTCAAGGTGATTCACAGAGACCTCAAGTCAAGAAACGTTGTTATAGCTGCTGATGG AGTACTGAAGATCTGTGACTTTGGTGCCTCTCGGTTCCATAACCATACAACACACATGTC CTTGGTTGGAACTTTCCCATGGATGGCTCCAGAAGTTATCCAGAGTCTCCCTGTGTCAGA AACTTGTGACACATATTCCTATGGTGTGGTTCTCTGGGAGATGCTAACAAGGGAGGTCCC CTTTAAAGGTTTGGAAGGATTACAAGTAGCTTGGCTTGTAGTGGAAAAAAACGAGAGATT AACCATTCCAAGCAGTTGCCCCAGAAGTTTTGCTGAACTGTTACATCAGTGTTGGGAAGC TGATGCCAAGAAACGGCCATCATTCAAGCAAATCATTTCAATCCTGGAGTCCATGTCAAA TGACACGAGCCTTCCTGACAAGTGTAACTCATTCCTACACAACAAGGCGGAGTGGAGGTG CGAAATTGAGGCAACTCTTGAGAGGCTAAAGAAACTAGAGCGTGATCTCAGCTTTAAGGA GCAGGAGCTTAAAGAACGAGAAAGACGTTTAAAGATGTGGGAGCAAAAGCTGACAGAGCA GTCCAACACCCCGCTTCTCTTGCCTCTTGCTGCAAGAATGTCTGAGGAGTCTTACTTTGA ATCTAAAACAGAGGAGTCAAACAGTGCAGAGATGTCATGTCAGATCACAGCAACAAGTAA CGGGGAGGGCCATGGCATGAACCCAAGTCTGCAGGCCATGATGCTGATGGGCTTTTGGGGA TATCTTCTCAATGAACAAAGCAGGAGCTGTGATGCATTCTGGGATGCAGATAAACATGCA AGCCAAGCAGAATTCTTCCAAAACCACATCTAAGAGAAGGGGGGAAGAAAGTCAACATGGC TCTGGGGTTCAGTGATTTTGACTTGTCAGAAGGTGACGATGATGATGATGACGGTGA GGAGGAGGATAATGACATGGATAATAGTGAATGAAAGCAGAAAGCAAAGTAATAAAATCA CAAATGTTTGGAAAACACAAAAGTAACTTGTTTATCTCAGTCTGTACAAAAACAGTAAGG AGGCAGAAAGCCAAGCACTGCATTTTTAGGCCAATCACATTTACATGACCGTAATTTCTT ATCAATTCTACTTTTATTTTTGCTTACAGAAAAACGGGGGGAGAATTAAGCCAAAGAAGT ATATTTATGAATCAGCAAATGTGGTGCCTGATTATAGAAATTTGTGATCCTATATACAAT ATAGGACTTTTAAAGTTGTGACATTCTGGCTTTTTTCTTTTAATGAATACTTTTTAGTTTG TAGCAATACACTGTAATATCAGAAATGGTTGGCCTGAGCAACCTAGTAAGACCTCGTCTC TACTAATAATTAAAAAACTAGCTGGCATGGTAGCACACACCTGTAGTCCCAGATACTTGG GATGGCACCACTGCACTCTAGCCTGGGCAAGAGAACAAGATCCTGTCTCAAAAAAACAAAA AAAAAAAAAAAGGGCGGCCG

MSSLGASFVQIKFDDLQFFENCGGGSFGSVYRAKWISQDKEVAVK
KLLKIEKEAEILSVLSHRNIIQFYGVILEPPNYGIVTEYASLGSLYDYINSNRSEEMDMD
HIMTWATDVAKGMHYLHMEAPVKVIHRDLKSRNVVIAADGVLKICDFGASRFHNHTTHMS
LVGTFPWMAPEVIQSLPVSETCDTYSYGVVLWEMLTREVPFKGLEGLQVAWLVVEKNERL
TIPSSCPRSFAELLHQCWEADAKKRPSFKQIISILESMSNDTSLPDKCNSFLHNKAEWRC
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SKTEESNSAEMSCQITATSNGEGHGMNPSLQAMMLMGFGDIFSMNKAGAVMHSGMQINMQ
AKQNSSKTTSKRRGKKVNMALGFSDFDLSEGDDDDDDDGEEEDNDMDNSE

and the second



GACAGGCGCTGGGCCCTGCAGCTGGGTCGAGCGCTGCTGCTGCGCTTCACGGGCA AGCCCGGCCGGCCTACGGCTTGGGGCCGGCCGGCCGGCGGCGGCGGCGGGGG AGCGTCCAGGCTGGGCCGCAGGACCGGGCGCGGGGCCTCGCAGGGTCGGGCTCGGGCTTC CTAACCGTCTCCGCCTTCTTCCGCCAGTCGGTGGCCGGGCTGGCGGCGCGGGTTGCAGCGGC AGTTCGTGGTGCGGGCCTGGGGCCTGCGCGCCCTTGCGGCCGGCCAGTCTTTCTGGCCT ACACGAGACGCTTGCAGGGCTTTCGGCTGGAGGAGTATCTGATAGGGCAGTCCATTGGTA AGGGCTGCAGTGCTGTGTATGAAGCCACCATGCCTACATTGCCCCAGAACCTGGAGG TGACAAAGAGCACCGGGTTGCTTCCAGGGAGAGGCCCCAGGTACCAGTGCACCAGGAGAAG GGCAGGAGCGAGCTCCGGGGGCCCCTGCCTTCCCCCTTGGCCATCAAGATGATGTGGAACA TCTCGGCAGGTTCCTCCAGCGAAGCCATCTTGAACACAATGAGCCAGGAGCTGGTCCCAG CGAGCCGAGTGGCCTTGGCTGGGGAGTATGGAGCAGTCACTTACAGAAAATCCAAGAGAG GTCCCAAGCAACTAGCCCCTCACCCCAACATCATCCGGGGTTCTCCGCGCCCTTCACCTCTT CCGTGCCGCTGCCAGGGGCCCTGGTCGACTACCCTGATGTGCTGCCCTCACGCCTCC ACCCTGAAGGCCTGGGCCATGGCCGGACGCTGTTCCTCGTTATGAAGAACTATCCCTGTA CCCTGCGCCAGTACCTTTGTGTGAACACACCCCAGCCCCCGCCTCGCCGCCATGATGCTGC TGCAGCTGCTGGAAGGCGTGGACCATCTGGTTCAACAGGGCATCGCGCACAGAGACCTGA AATCCGACAACATCCTTGTGGAGCTGGACCCAGACGGCTGCCCCTGGCTGATCGCAG ATTTTGGCTGCCTGGCTGATGAGAGCATCGGCCTGCAGTTGCCCCTTCAGCAGCTGGT ACGTGGATCGGGGCGGAAACGGCTGTCTGATGGCCCCAGAGGTGTCCACGGCCCGTCCTG GCCCCAGGGCAGTGATTGACTACAGCAAGGCTGATGCCTGGGCAGTGGGAGCCATCGCCT ATGAAATCTTCGGGCTTGTCAATCCCTTCTACGGCCAGGGCAAGGCCCACCTTGAAAGCC GCAGCTACCAAGAGGCTCAGCTACCTGCACTGCCCGAGTCAGTGCCTCCAGACGTGAGAC AGTTGGTGAGGGCACTGCTCCAGCGAGAGGCCCAGCAAGAGACCATCTGCCCGAGTAGCCG CAAATGTGCTTCATCTAAGCCTCTGGGGTGAACATATTCTAGCCCTGAAGAATCTGAAGT TAGACAAGATGGTTGGCTGGCTCCTCCAACAATCGGCCGCCACTTTGTTGGCCAACAGGC TCACAGAGAAGTGTTGTGTGGAAACAAAAATGAAGATGCTCTTTCTGGCTAACCTGGAGT GTGAAACGCTCTGCCAGGCAGCCCTCCTCCTCTCTGCTCATGGAGGGCAGCCCTGTGATGTC CCTGCATGGAGCTGGTGAATTACTAAAAGAACTTGGCATCCTCTGTGTCGTGATGGTCTG TGAATGGTGAGGGTGGGAGTCAGGAGACAAGACAGCGCAGAGAGGGGCTGGTTAGCCGGAA AAGGCCTCGGGCTTGGCAAATGGAAGAACTTGAGTGAGAGTTCAGTCTGCAGTCCTCTGC TCACAGACATCTGAAAAGTGAATGGCCAAGCTGGTCTAGTAGATGAGGCTGGACTGAGGA GGGGTAGGCCTGCATCCACAGAGAGGGTCCAGGCCAAGGCACTGGCTGTCAGTGGCAGAG TTTGGCTGTGACCTTTGCCCCCTAACACGAGGAACTCGTTTGAAGGGGGGCAGCGTAGCATG TCTGATTTGCCACCTGGATGAAGGCAGACATCAACATGGGTCAGCACGTTCAGTTACGGG AGTGGGAAATTACATGAGGCCTGGGCCTCTGCGTTCCCAAGCTGTGCGTTCTGGACCAGC GGGATTT&AACTTGAGGGTTTCCCCTCCTGACTAGCCTCTCTTACAGGAATTGTGAAATAT

Fig. 3

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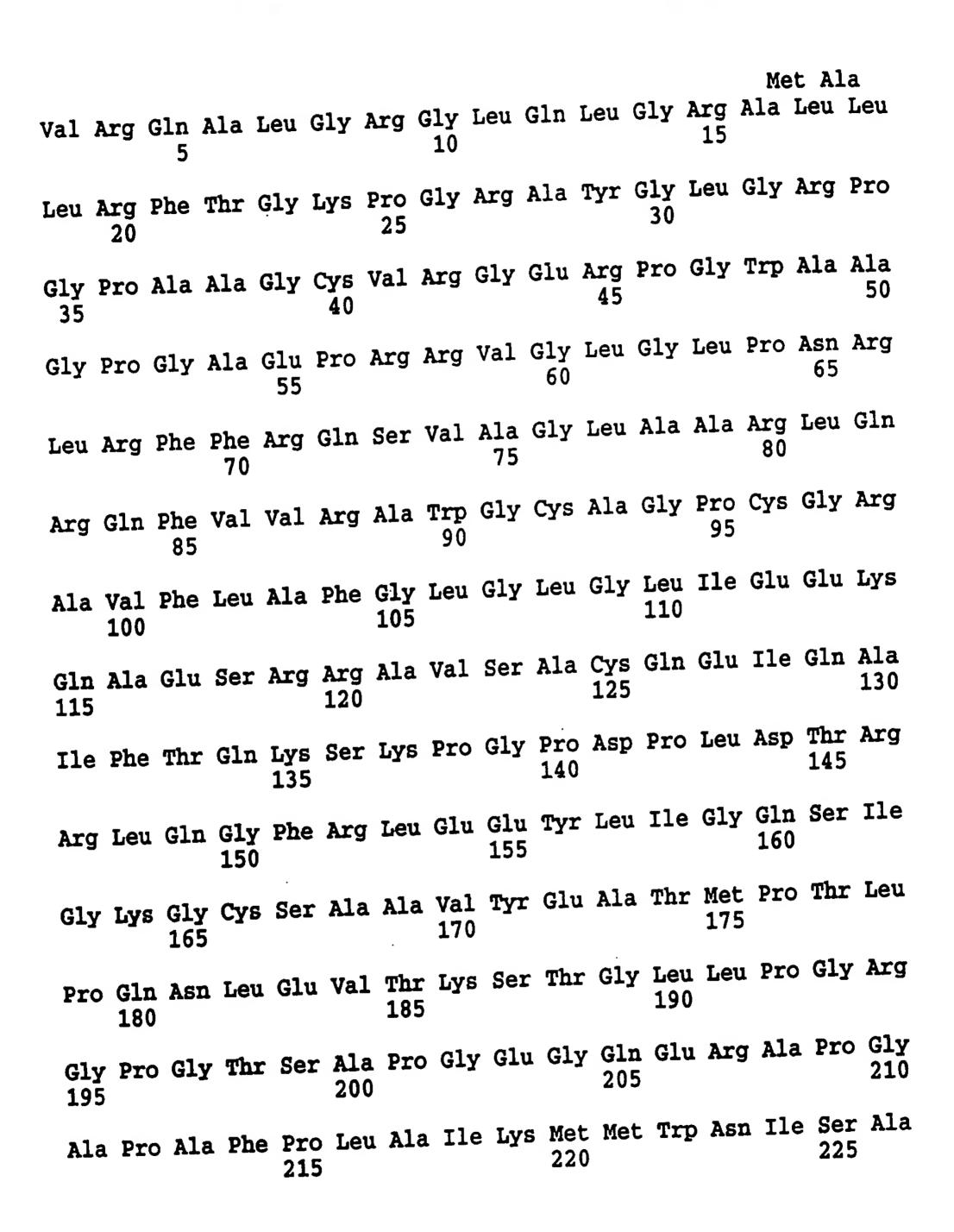


Fig. 3 (continued)

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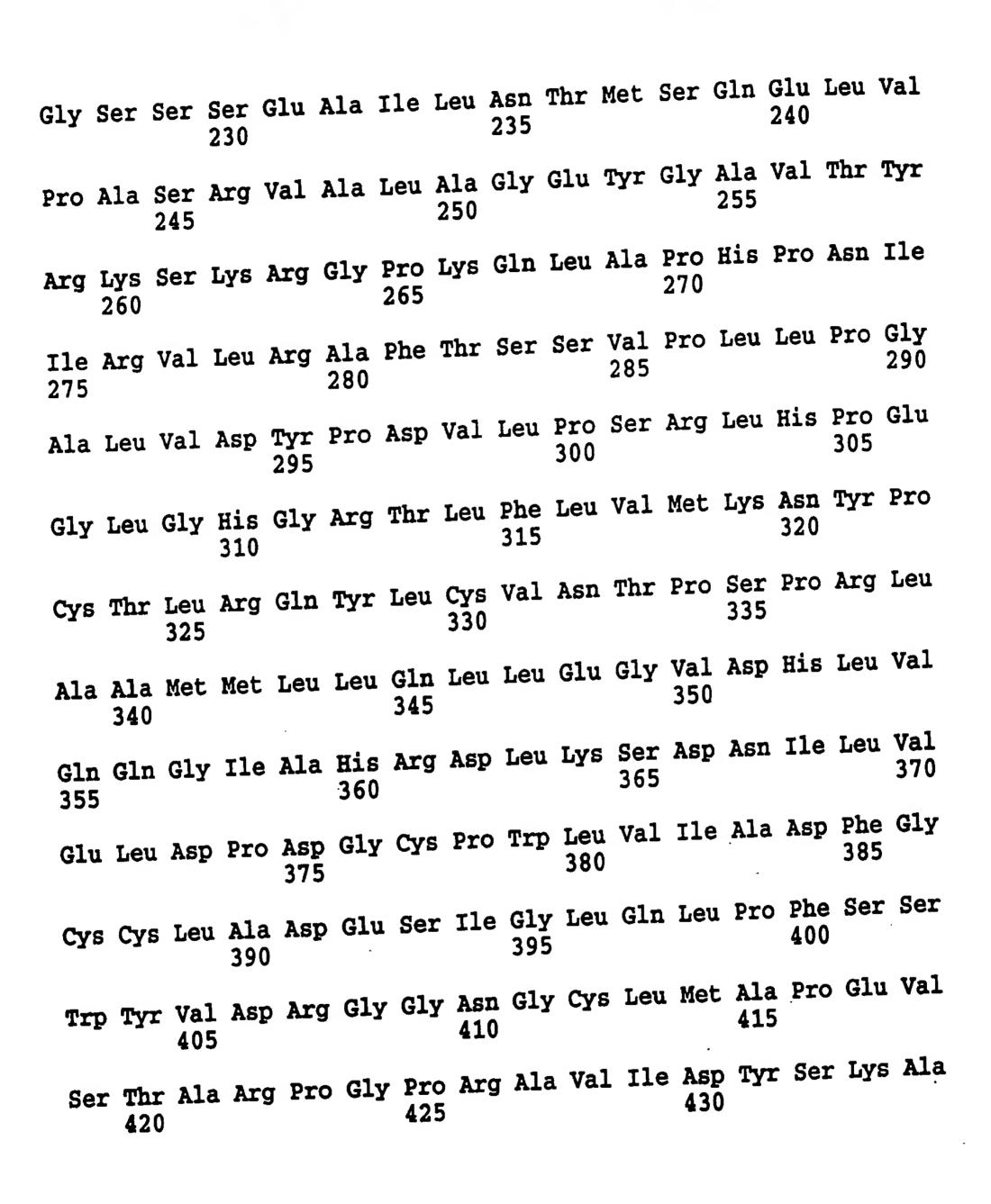


Fig. 3 (continued)

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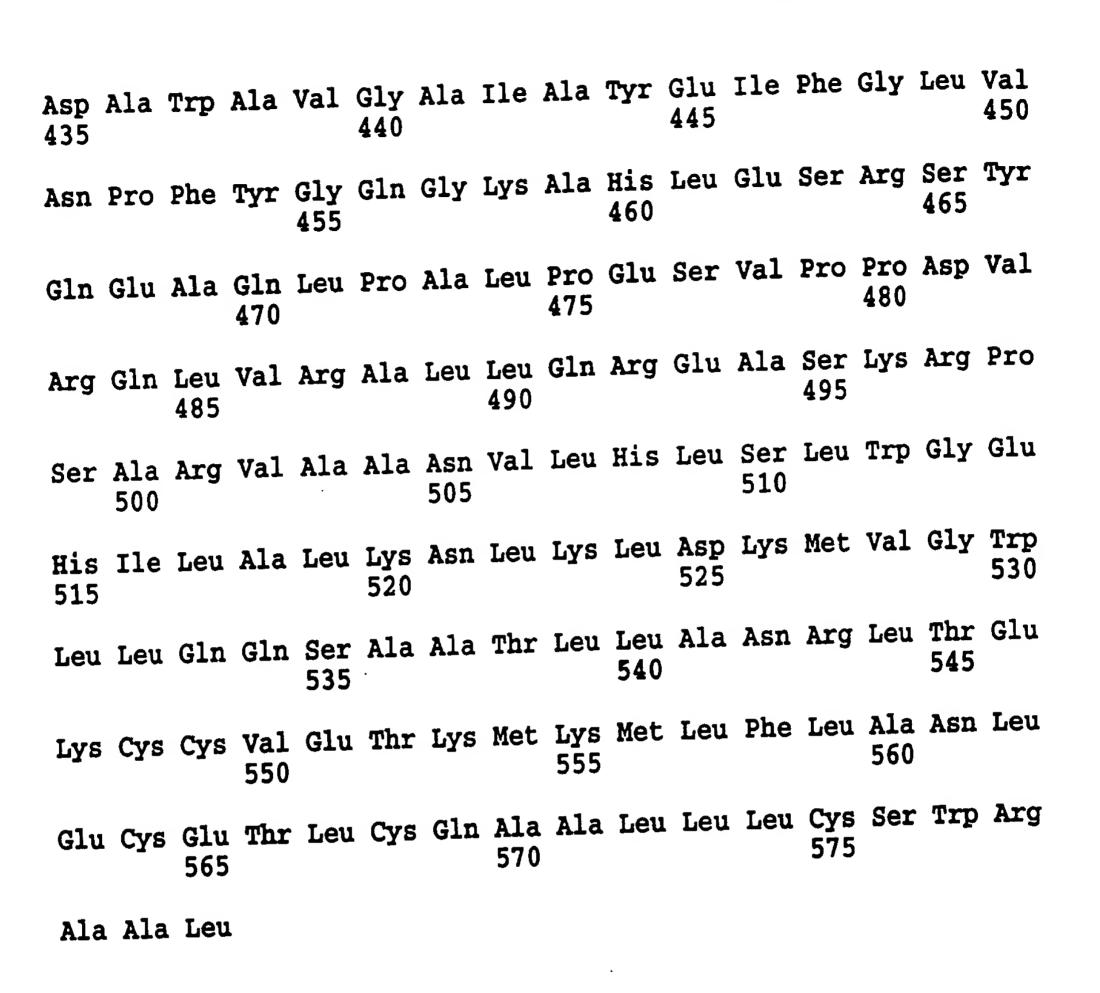


Fig. 3 (continued)

GTCGACCCACGCGTCCGCCCACGCGTTCCGGAGACATGTCTCTGTGTTTC TCTCCCCTCCGCTTTTGAGTCCGTTGAAGACACAATTTCTCTCTGTCGGGT GCTTAGGAGGAGCTCCATGAACATGTATTGAATTGGACTTAGCTGAACAG GCTGCTGGTTGGCTGCCCAGAGGGGGCAGGCTGTGTTGCTGGGAGCCTTC CAGCTCCCTGCAGCAGTCATGGGGCAGGGTTCCCCGAGTCCGTAATCCCC TTAAGTGGAGCATCCCCTTTCCTGGGAGACACGAAGCAGGAAACACTGGC AAATATCACAGCAGTGAGTTACGACTTTGATGAGGAATTCTTCAGCCAGA CGAGCGAGCTGGCCAAGGACTTTATTCGGAAGCTTCTGGTTAAAGAGACC CGGAAACGGCTCACAATCCAAGAGGCTCTCAGACACCCCTGGATCACGCC GGTGGACAACCAGCAAGCCATGGTGCGCAGGGAGTCTGTGGTCAATCTGG AGAACTTCAGGAAGCAGTATGTCCGCAGGCGGTGGAAGCTTTCCTTCAGC ATCGTGTCCCTGTGCAACCACCTCACCCGCTCGCTGATGAAGAAGGTGCA CCTGAGGCCGGATGAGGACCTGAGGAACTGTGAGAGTGACACTGAGGAG GACATCGCCAGGAGGAAAGCCCTCCACCCACGGAGGAGGAGCAGCACCT CCTAACTGGCCTGACCTGCAGTGGCCGCCAGGGAGGTCTGGGCCCAGCGG GGCTCCCTTCTGTGCAGACTTTTGGACCCAGCTCAGCACCAGCACCCGGGC GTCCTGAGCACTTTGCAAGAGAGATGGGCCCCAAGGAATTCAGAAGAGCTT GCAGGCAAGCCAGGAGACCCTGGGGAGCTGTGGCTGTCTTCTGTGGAGGAG GCTCCAGCATTCCCCAAAGCTCTTAATTCTCCATAAAATGGGCTTTCCTCTG TCTGCCATCCTCAGAGTCTGGGGGTGGGAGTGTGGACTTAGGAAAACAATA TAAAGGACATCCTCATCACCGGGGTGAAGGTCAGACTAAGGCAGCCTT CTTCACAGGCTGAGGGGGTTCAGAACCAGCCTGGCCAAAAATTACACCAG AGAGACAGAGTCCTCCCCATTGGGAACAGGGTGATTGAGGAAAGTGAACC TTGGGTGTGAGGGACCAATCCTGTGACCTCCCAGAACCATGGAAGCCAGG ACGTCAGGCTGACCAACACCTCAGACCTTCTGAAGCAGCCCATTGCTGGC CCGCCATGTTGTAATTTTGCTCATTTTTATTAAACTTCTGGTTTACCTGATG CTTGGCTTCTTTTAGGGCTACCCCCATCTCATTTCCTTTAGCCCGTGTGCCT GTAACTCTGAGGGGGGGCACCCAGTGGGGTGCTGAGTGGGCAGAATCTCA CTGGGAGTGGCTCACGCCTATAATCCCTGCGCTTTGGCAGTCCGAGG CAGGGGAATTGCTTGAACTCAGGAGTTGGAGACCAGCCTGGGCAACATGG CAAAACGCAGTCTGTACAAAAATACAAAAATTAGCCAGGTGTAGGGGT AGGCACCTGGCATCCCAGCTACTCCAGGGGCTGAGGTGACAGCATTGCTT AAGCCCAGAAGGTCGAGGCTGCAGTGAGCTGAGATCACGCCACTGCACTC CGGCCGC

LFDSLSVVLSLSGASPFLGDTKQETLANITAVSYDFDEEFFSQTSELAKDFIRKL LVKETRKRLTIQEALRHPWITPVDNQQAMVRRESVVNLENFRKQYVRRRWK LSFSIVSLCNHLTRSLMKKVHLRPDEDLRNCESDTEEDIARRKALHPRRRSSTS

Fig. 4

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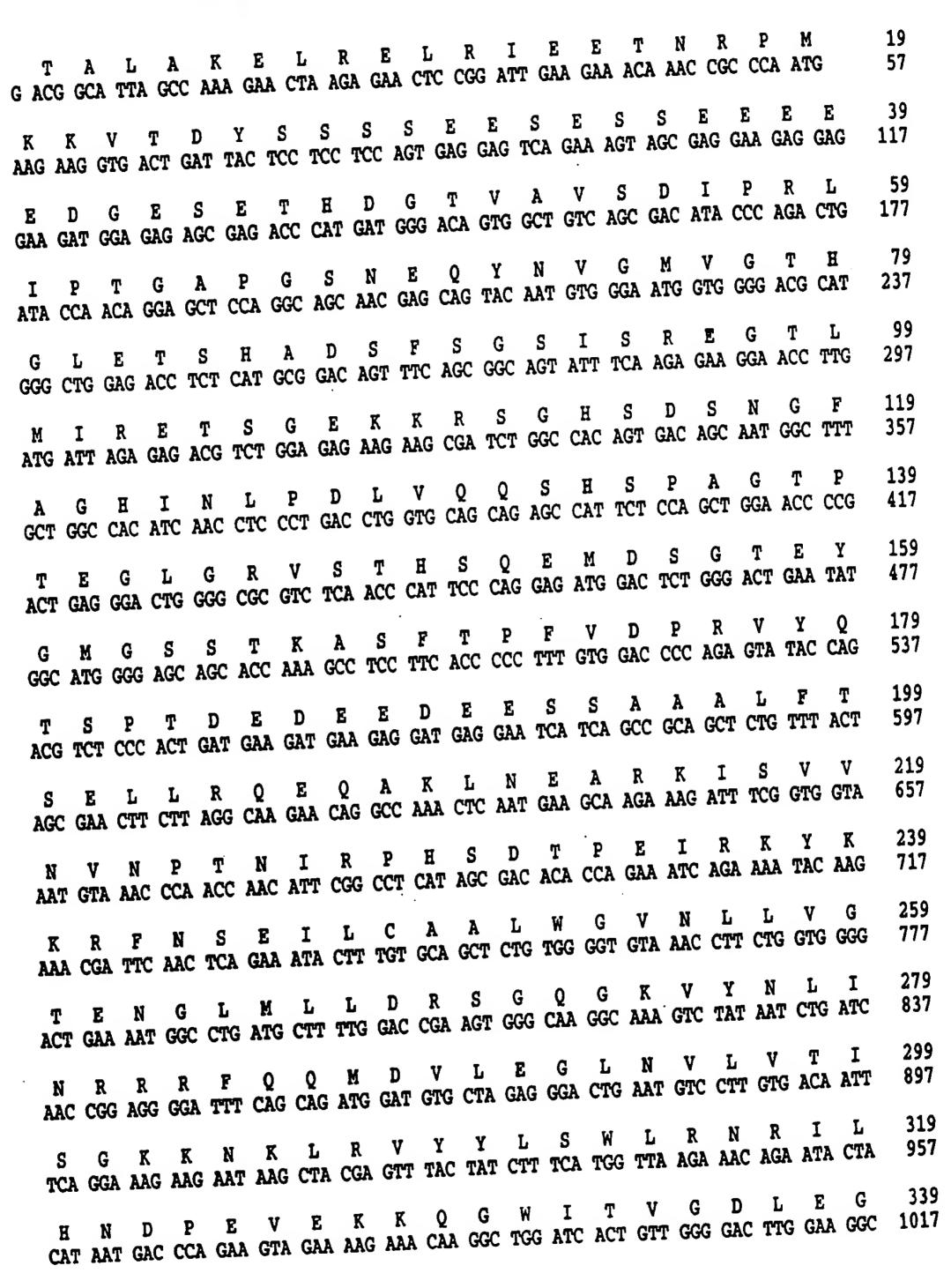


Fig. 5

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C TGT	I ATA	H CAT	Y TAT	K AAA	V GTT	V GTT	K AAA	Y TAT	E GAA	R AGG	I ATC	K AAA	F TTT	L TTG	V GTG	I ATT	A GCC	L TTA	K AAG	359 1077
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Fig. 5 (continued)

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